

# Quick and painless intro to the Perl programming language

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# The Basics

# Introduction

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- What is Perl?
- What is perl?
- What is PERL?
- What is Perl's history?
- What does it look like?
- The motto
- Why should I use Perl?
- Why shouldn't I use Perl?

# What is Perl?

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- A high level modern programming language
- Open Source and Free
- General purpose
- Interpreted
- Dynamic

# What is perl?

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- The language Compiler/Interpreter
- Compiles and Interprets code on the fly
- can be used for simple oneliners

## What is PERL?

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**WRONG!** This is not a canonical or accepted spelling/case and should never be used!

# What is Perl's history

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- First version released in 1987
- Current versions include both Perl 5 and Perl 6
- First 5.x version released in 1994
- First version for Perl 6 is expected to arrive this year

## What does it look like?

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```
#!/usr/bin/perl
$|--;for($/=1/10;$/<=1/2;$/+50e-7){$\\=qq/J,\\r/;
substr$\\,$/*length$\\,$/-$/,$_,for split/(.{2})/,
q/ursetk caanho tlhreerP /;print'';}warn qq/\\n/;

# by choroba from PerlMonks.org
```



# What does it look like?

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- kidding, that was obfuscated
- written like that for compactness, obscurity or just fun.
- normal Perl is not written like that.

# What does it look like?

---

```
#!/usr/bin/env perl
```

```
use Lingua::Romana::Perligata;
```

```
maximum inquementum tum biguttam egresso scribe.  
meo maximo vestibulo perlegamentum da.  
da duo tum maximum conscribementa meis listis.
```

```
dum listis decapitamentum damentum nexto  
    fac sic  
        nextum tum novumversum scribe egresso.  
        lista sic hoc recidementum nextum cis vannementa da listis  
    cis.
```

## What does it look like?

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- kidding, that was just a module
- written like that for pure fun.
- has a paper to accompany and explain it though!
- normal Perl is not written like that.

# What does it look like?

```
#!/usr/bin/perl -w                                # camel code
use strict;

ATA,0,
{<DATA>;}my
my$Camel ;while(
9s";my$dromedary
_=<DATA>)){@camel1hum
ry1){my$camel1hump=0
t(@dromedary1
$CAMEL--;if(d
$camel1hump+=1
<<$CAMEL;}$CAMEL--;if(defined($_=shift(
@camel1hump))&&/\S/){$camel1hump+=1<<$CAMEL;}$CAMEL--;if(
defined($_=shift(@camel1hump))&&/\S/){$camel1hump+=1<<$CAME
L;}}$camel=(split(//,"040..m'{/J\047\134}L^7FX"))[$camel1h
ump];}$camel="\n";}@camel1hump=split(/\n/,$camel);foreach(@
camel1hump){chomp;$Camel=$_;y/LJF7\173\175'\047/\061\062\063\
064\065\066\067\070;/y/12345678/JL7F\175\173\047'/;$_=reverse;
print"$_040$Camel\n";}foreach(@camel1hump){chomp;$Camel=$_;y
/LJF7\173\175'\047/12345678;/y/12345678/JL7F\175\173\0 47'/;
$_=reverse;print"\040$_$Camel\n";}';;s/\s*/;/g;eval; eval
("seek\040DATA,0,0;");undef$/_;$_=<DATA>;s/\s*/;/g;( );;s
;~.*_;;map{eval"print\"$_\"";}/.{4}/g; __DATA__ \124
\1 50\145\040\165\163\145\040\157\1 46\040\1 41\0
40\143\141 \155\145\1 54\040\1 51\155\ 141
\147\145\0 40\151\156 \040\141 \163\16 3\
157\143\ 151\141\16 4\151\1 57\156
\040\167 \151\164\1 50\040\ 120\1
```

# Ok, What does it REALLY look like?

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```
#!/usr/bin/perl
use strict;
use warnings;

use Path::Class;
use autodie; # die if problem reading or writing a file

my $dir = dir("/tmp"); # /tmp

my $file = $dir->file("file.txt");

# Read in the entire contents of a file
my $content = $file->slurp();

# openr() returns an IO::File object to read from
my $file_handle = $file->openr();

# Read one line at a time
while( my $line = $file_handle->getline() ) {
    print $line;
}
```

The motto

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**There's more than one way to do  
it**  
(TMTOWTDI or TIMTOWTDI,  
pronounced Tim Toady)

# Why should I use Perl?

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- General Purpose
- Fast and simple to deploy
- Fun
- Speed is not a critical issue.
- Programming freedom (TIMTOWTDI), can code however you like

## Why shouldn't I use Perl?

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- You have legacy code that is NOT in Perl
- Speed is a critical issue
- Need FULL optimizable performance
- Target system does not have Perl (or cannot install it)



# Package and Versions Management

# CPAN

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## Comprehensive Perl Archive Network

- Interface for installing modules
- Vast collection of Modules and Documentation
- Found at <http://www.cpan.org>

# CPANMINUS

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## cpanm

- A self bootstrappable script
- Has NO dependencies
- Can Get, Unpack, Install CPAN modules
- Needs only 10M of RAM when running
- Zeroconf, Just works

# Perl Binary Management

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## plenv

- Simple, UNIX like version management
- Needs git and your regular Build tool collection like build-essential on debian or the C/C++ development pattern on openSUSE
- excellent buddy to Carton (Perl world's "Bundler") for dependency management

## The community

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“One of Perl’s biggest strengths is its community...”

## Useful links

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<https://www.perl.org/community.html>

<http://www.pm.org/>

<http://www.perlmonks.com/>

Thank you for your attention

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Q & A